VoIP Device
192.168.1.1/24
GW: 192.168.1.100 — 52

ERP Clients
192.168.1.2 - 7/24
GW: 192.168.1.100 — 54

Other Clients
192.168.1.7 - 99/24
GW: 192.168.1.100 — 56

VoIP Device
192.168.2.1/24
GW: 192.168.2.100 — 52

ERP Clients
192.168.2.2 - 7/24
GW: 192.168.2.100 — 54

Other Clients
192.168.2.7 - 99/24
GW: 192.168.2.100 — 56

VoIP Device
192.168.10.1/24
GW: 192.168.10.100 — 52

ERP Clients
192.168.10.2 - 7/24
GW: 192.168.10.100 — 54

Other Clients
192.168.10.7 - 99/24
GW: 192.168.10.100 — 56

192.168.1.0/24

192.168.2.0/24

192.168.10.0/24

Remote Modem
(Remote TX & RX)
192.168.1.100/24 — 30
Remote 1 — 22

Remote Modem
(Remote TX & RX)
192.168.2.100/24 — 30
Remote 2 — 22

Remote Modem
(Remote TX & RX)
192.168.10.100/24 — 30
Remote 10 — 22

192 kbit/s
(From Remote 1)

256 kbit/s (From Remote 2)

TX
IDLE

96 kbit/s (From Remote 7)

2 Mbit/s
(To All Remotes)

RX
IDLE

Network Control Modem
(Hub TX/RX: TX1, RX1)
10.10.1.101/16
GW: 10.10.1.100 — 20

Network Rx Modem
(Hub RX Only: RX2)
10.10.1.102/16
GW: 10.10.1.100 — 28

Network Rx Modem
(Hub RX Only: RX3)
10.10.1.103/16
GW: 10.10.1.100 — 28

Network Rx Modem
(Hub RX Only: RX4)
10.10.1.104/16
GW: 10.10.1.100 — 28

Network Rx Modem
(Hub RX Only: RX5)
10.10.1.105/16
GW: 10.10.1.100 — 26

IDLE

24

100 base-T LAN (10.10.0.0/16)

HUB

12

VoIP Gateway
10.10.1.1/16
GW: 10.10.1.100 — 46

ERP Server
10.10.1.2/16
GW: 10.10.1.100 — 44

Proxy Server
10.10.1.3/16
GW: 10.10.1.100 — 42

Other Servers
10.10.1.4 - 63/16
GW: 10.10.1.100 — 42

Internet GW Router
10.10.1.100/16 — 40

Internet — 50

10

14

18

16

Figure 1. Sample Network Schematic

S. No.	Descriptive Name	Type	Modem ID	IP Address	Admin Status
1	Network Control Modem	Control	0x00	10.10.10.1	In Service
2	Network receive Modem 1	Receive	0x01	10.10.10.2	In Service
3	Network receive Modem 2	Receive	0x02	10.10.10.3	Out of Service
...					

Figure 2

S. No.	Name	Contact Info.	Remote ID	Remote IP Address	Admin Status	Forward QoS Min	Forward QoS Max	Return QoS Min	Return QoS Max	Priority
1	REMOTE 1	"	0x0A	192.168.1.100	In Service	0 kbit/s	128 kbit/s	32 kbit/s	64 kbit/s	1
2	REMOTE 2	"	0x0B	192.168.2.100	Call Barred	128 kbit/s	256 kbit/s	16 kbit/s	32 kbit/s	5
3	REMOTE 3	"	0x0C	192.168.3.100	Out of Service	32 kbit/s	64 kbit/s	8 kbit/s	16 kbit/s	1
...										

Figure 3

S. No.	Channel Name	Channel ID	Hub Modem Assignment	Center Freq. (IF)	Data Rate	Modulation	FEC	Admin Status
1	TX_1	0x00	0x00	f_1	2 Mbit/s	QPSK	R=3/4	In Service
2	RX_1	0x0A	0x00	f_2	32 kbit/s	QPSK	R=3/4	In Service
3	RX_2	0x0B	0x01	f_3	64 kbit/s	QPSK	R=3/4	Out of Service
4	RX_3	0x0C	0x02	f_4	64 kbit/s	QPSK	R=3/4	In Service
5	RX_4	0x0D	0x03	f_5	128 kbit/s	QPSK	R=3/4	In Service
6	RX_5	0x0E	0x04	f_6	256 kbit/s	8PSK	R=2/3	In Service
...								

Figure 4

S. No.	Channel ID	Frequency Offset	Data Rate	Modulation	FEC	Remote ID	Comments
1	0x00	f_1	2 Mbit/s	QPSK	R=3/4	0x00	Shared outbound channel, assigned to Network Control Modem.
2	0x0A	f_2	64 kbit/s	QPSK	R=3/4	0x01	Assigned to Remote CIM-xxx, Remote ID:0x01
3	0x0C	f_4	64 kbit/s	QPSK	R=3/4	0xFE	Locked
4	0x0D	f_5	128 kbit/s	QPSK	R=3/4	0xFF	Available.
5	0x0E	f_6	128 kbit/s	QPSK	R=3/4	0xFF	Available
...						...	

Figure 5

S. No.	Channel ID	Frequency Offset	Data Rate	Modulation	FEC	Remote ID	Comments
1	0x0D	f_5	128 kbit/s	QPSK	R=3/4	0xF0	Channel has been administratively removed and is no longer available. If a Remote was using this channel, it will have to immediately terminate.
2	0x34	f_{34}	256 kbit/s	8PSK	R=2/3	0xF1	A new channel has been added and is available.
...							

Figure 6